

METAL FINISHING TECHNOLOGIES, LLC

Finishing Work Force Pipeline Initiative Connecticut Readiness

Speaker Ritter's Office 13-December- 2022 Peter Mirabello

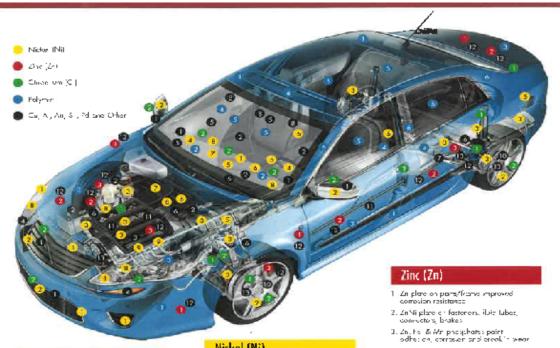
METAL FINISHING SUMMARY MARKET STATUS

- 1) Ct Metal Finishing is facing the same workforce headwinds others in the state and nation. Our coalition is providing a solution to address that challenge and open a viable and stable career path
- 2) Metal Finishing is especially challenged as it is not being taught in high schools or technical schools. Yet it's a direct line into mfg that will help ensure next generation CT workforce continues to grow.
- 3) As importantly Metal Finishing is and will remain a critical link in the manufacturing supply chain regionally and nationally. It supports all major industries. Its need is <u>not going away.</u> On top of that the skills are highly transferable.

Finishing examples of what's next: Evolution of Aerospace efficiency & Electric Battery Tech

- To make aircraft fly faster, farther and with more payload, the goal is to lighten the aircraft. Done by using lighter base materials.
- Those new materials need to be finished, (coated) to have new material perform like the older heavier materials. That's what finishing does.
- For example;
- Hydrogen, a next gen fuel source, produce internal steam leading to corrosion.
 New high temp coatings will be applied to protect the motor
- Finishing will also be critical to the evolving Electric Battery market to ensure better energy storage, life of the battery, and consumer safety.
- These is a long list of other industry's such as medical, marine, automotive, electronic, industrial and household appliances where this technology and skill is critical now and in the future.

Two of many examples of how integral and critical finishing is to the manufacturing in CT. And it will only grow into next generation of automobiles, aircraft, helicopters, drones, EV's, medical devices, space vehicles, weapon systems, etc.



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The National Association for Surface Finishing

National Press Building 529 14th Street NW, Suite 1280 Washington D.C. 20045 Ph; (202) 591-2454

NASEorg

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- 2. Ni plate under decorative chrome.

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- 6. Elegnoless N /Pd/Au for wire bond, Flothwa
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REGIONAL SECTOR COALITION TEAM









Uni Metal MFT, LLC **Summit Plating** HAR CONN **Waterbury Plating Pape Plating Bass Electro Plating** AEF **Hubbard Hall** MacDermid



Overview:

1) CHALLENGE: A significant amount of Connecticut finishing work gets shipped out of state - due to shortages of quality certified suppliers and a skilled workforce to meet the need.

Yet finishing remains critical to the supply chains of Raytheon, Lockheed Martin, General Dynamics, as well as GE, RR, the automotive industry, medical, marine and the industrial markets. And to Connecticut's readiness and competitiveness

Further the demand for finishing in the state and nation *will only increase* with the arrival of drones, EV's, next generation aircraft, medical, commercial, marine, motorcycles, household goods and evolving material sciences, etc.



- **2) OPPORTUNITY NEED**: Our coalition can provide an industry leading pipeline of a well-prepared finishing candidates in CT.
- 3) CHARTER SOLUTION: turn the need into an innovative, viable and rewarding career path.
 - <u>TEACHING APPROACH</u>: combines the science, technology and the environment. Historically only science was contemplated and taught.
 - <u>GREEN EVOLUTION</u>: Industry is based on the periodic table, the list of all known elements the earth provides. It is critical to teaching using these elements in both an efficient manner and with an eye towards the environment. Green Global Thinking
 - <u>FORWARD THINKING INNOVATION</u> finding efficient, greener uses of our resources and technology that will drive the fature

ACROSS THE BOARD SOLUTION BENEFIT

The Company Benefit:

Provides viable candidates with industry awareness and a guided hands-on familiarity upfront

This eliminates the normal 30-60-90 days of trial to then only have fall out

Reduces the cost of training and the higher turnover rate for entry level employees

The Employee Benefit:

Successful Candidates can Add value Day 1 - and earn better pay to start, *leading to family sustainable wages*

Opens a career and career path that overtime can lead to other key functional needed areas such as:

Quality Engineer

Process Engineer

Technical Sales

Team Lead

Department Head

Maintenance Director

The State's Benefit: Jobs and Infrastructure

Critically strengthens in Ct all major industries while expanding the Ct tax-payer base

STATE BENEFIT SIZING: AREA REGISTERED PLATING FINISHERS IN THE AREA

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Har-Conn Chrome Company West Hartford CT 0613-0189 West Hartford CT Plating Polishing Plating Of Metals Or Formed Products A-1 Chrome and Polishing Corp Newington CT 06111-3619 Newington CT Plating Polishing Electroplating Of Metals Or Formed Products A-1 Chrome and Polishing Inc Newington CT 06111-547 Newington CT Plating Polishing Tumbling (cleaning And Polishing) Of Machine Parts Plainville Electro Plating Co Hartford CT 06117-1112 Hartford CT Plating Polishing Electroplating Of Metals Or Formed Products Hitech Chrome Pitg & Polsg Lc North Windham CT 06256-0204 North Windham CT Plating Polishing Electroplating Of Metals Or Formed Products National Chromium Company Inc Prestige Metal Finishing LLC Eastford CT 06382-2301 Uncasville CT Plating Polishing CT Plating Polishing Decorative Plating And Polishing Of Metals Or Formed Products CT Plating Polishing CT Plating Polishing CT Plating Polishing Chromium Plating Of Metals Or Formed Products CT Country Creations by Carol Meriden CT 06382-2301 Uncasville CT Plating Polishing CT Plating Polishing Chromium Plating Of Metals Or Formed Products CT Plating Polishing Chromium Plating Of Metals Or Formed Products CT Plating Polishing Chromium Plating Of Metals Or Formed Products CT Plating Polishing CT Plating Polishing Chromium Plating Of Metals Or Formed Products CT Plating Polishing Chromium Plating Of Metals Or Formed Products CT Plating Polishing Chromium Plating Of Metals Or Formed Products CT Plating Polishing Chromium Plating Of Metals Or Formed Products	Precision Finishing Svcs Inc	North Granby	СТ	06060-0189	Windsor	СТ	Plating Polishing	Plating Of Metals Or Formed Products
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Plainville Electro Plating Co Hartford CT 06117-1112 Hartford CT Plating Polishing Electroplating Of Metals Or Formed Products Hitech Chrome Pltg & Polsg Lc North Windham CT 06256-0204 North Windham CT Plating Polishing Electroplating Of Metals Or Formed Products Putnam CT Plating Polishing Chromium Plating Of Metals Or Formed Products Prestige Metal Finishing LLC Eastford CT 06242-0097 Woodstock Valley CT Plating Polishing Plating Polishing Plating Of Metals Or Formed Products Country Creations by Carol Uncasville CT 06382-2301 Uncasville CT Plating Polishing Decorative Plating And Finishing Of Formed Products Cre Chrome Corporation Meriden CT Plating Polishing Chromium Plating Of Metals Or Formed Products Cre Chrome Corporation CT Plating Polishing Chromium Plating Of Metals Or Formed Products	A-1 Chrome and Polishing Corp	Newington	СТ	06111-3619	Newington	СТ	Plating Polishing	Electroplating Of Metals Or Formed Products
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National Chromium Company Inc Putnam CT 06260-1039 Putnam CT Plating Polishing Chromium Plating Of Metals Or Formed Products Prestige Metal Finishing LLC Eastford CT 06242-0097 Woodstock Valley CT Plating Polishing Plating Of Metals Or Formed Products Country Creations by Carol Uncasville CT 06382-2301 Uncasville CT Plating Polishing Decorative Plating And Finishing Of Formed Products Cre Chrome Corporation Meriden CT 06450-4250 Meriden CT Plating Polishing Chromium Plating Of Metals Or Formed Products	Plainville Electro Plating Co	Hartford	СТ	06117-1112	Hartford	СТ	Plating Polishing	Electroplating Of Metals Or Formed Products
National Chromium Company Inc Putnam CT 06260-1039 Putnam CT Plating Polishing Chromium Plating Of Metals Or Formed Products Prestige Metal Finishing LLC Eastford CT 06242-0097 Woodstock Valley CT Plating Polishing Plating Of Metals Or Formed Products Country Creations by Carol Uncasville CT 06382-2301 Uncasville CT Plating Polishing Decorative Plating And Finishing Of Formed Products Cre Chrome Corporation Meriden CT 06450-4250 Meriden CT Plating Polishing Chromium Plating Of Metals Or Formed Products								
Prestige Metal Finishing LLC Eastford CT 06242-0097 Woodstock Valley CT Plating Polishing Plating Of Metals Or Formed Products Country Creations by Carol Uncasville CT 06382-2301 Uncasville CT Plating Polishing Decorative Plating And Finishing Of Formed Products Cre Chrome Corporation Meriden CT Plating Polishing Chromium Plating Of Metals Or Formed Products	Hitech Chrome Pltg & Polsg Lc	North Windham	СТ	06256-0204	North Windham	СТ	Plating Polishing	Electroplating Of Metals Or Formed Products
Prestige Metal Finishing LLC Eastford CT 06242-0097 Woodstock Valley CT Plating Polishing Plating Of Metals Or Formed Products Country Creations by Carol Uncasville CT 06382-2301 Uncasville CT Plating Polishing Decorative Plating And Finishing Of Formed Products Cre Chrome Corporation Meriden CT Plating Polishing Chromium Plating Of Metals Or Formed Products								
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Crc Chrome Corporation Meriden CT 06450-4250 Meriden CT Plating Polishing Chromium Plating Of Metals Or Formed Products	Prestige Metal Finishing LLC	Eastford	СТ	06242-0097	Woodstock Valley	СТ	Plating Polishing	Plating Of Metals Or Formed Products
	Country Creations by Carol	Uncasville	СТ	06382-2301	Uncasville	СТ	Plating Polishing	Decorative Plating And Finishing Of Formed Products
J M Compounds Inc Meriden CT 06450-8603 Meriden CT Plating Polishing Buffing For The Trade	Crc Chrome Corporation	Meriden	СТ	06450-4250	Meriden	СТ	Plating Polishing	Chromium Plating Of Metals Or Formed Products
	J M Compounds Inc	Meriden	СТ	06450-8603	Meriden	СТ	Plating Polishing	Buffing For The Trade

Bar Plating Inc	Meriden	СТ	06451-5589	Meriden	СТ	Plating Polishing	Electroplating Of Metals Or Formed Products
Rayco Metal Finishing Inc	Middletown	СТ	06457-0177	Middletown	СТ	Plating Polishing	Electroplating Of Metals Or Formed Products
Deburr Co	Plantsville	СТ	06479-0024	Plantsville	СТ	Plating Polishing	Finishing, Metals Or Formed Products
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Chromalloy Component Svcs Inc	Shelton	СТ	06484-3166	Shelton	СТ	Plating Polishing	Electroplating Of Metals Or Formed Products
Light Metals Coloring Co Inc	Southington	СТ	06489-1589	Southington	СТ	Plating Polishing	Electroplating Of Metals Or Formed Products
Concept Team Associates LLC	Wallingford	СТ	06492-2257	Wallingford	СТ	Plating Polishing	Plating Of Metals Or Formed Products
Broad Peak Manufacturing LLC	Wallingford	СТ	06492-2455	Wallingford	СТ	Plating Polishing	Cleaning, Polishing, And Finishing
Custom Chrome Plating	Wallingford	СТ	06492-4500	Wallingford	СТ	Plating Polishing	Electroplating Of Metals Or Formed Products
Technical Metal Finishing Inc	Wallingford	СТ	06492-5818	Wallingford	СТ	Plating Polishing	Electroplating Of Metals Or Formed Products
Color Ite Refinishing Co	Bethany	СТ	06524-3121	Bethany	СТ	Plating Polishing	Plating And Polishing
Reliable Plating & Polsg Co	Bridgeport	СТ	06607-1541	Bridgeport	СТ	Plating Polishing	Electroplating Of Metals Or Formed Products
Spec Plating Inc	Bridgeport	СТ	06607-1606	Bridgeport	СТ	Plating Polishing	Electroplating Of Metals Or Formed Products
Connecticut Anodizing Finshg	Bridgeport	СТ	06607-1930	Bridgeport	СТ	Plating Polishing	Finishing, Metals Or Formed Products
American Fnshg Specialists Inc	Bridgeport	СТ	06607-2101	Bridgeport	СТ	Plating Polishing	Electroplating Of Metals Or Formed Products
Lake Grinding Company	Bridgeport	СТ	06610-2103	Bridgeport	СТ	Plating Polishing	Finishing, Metals Or Formed Products
USC Technologies LLC	Stratford	СТ	06615-7103	Stratford	СТ	Plating Polishing	Electroplating And Plating
E & J Parts Cleaning Inc	Waterbury	СТ	06704-0250	Waterbury	СТ	Plating Polishing	Cleaning And Descaling Metal Products
Seidel Inc	Waterbury	СТ	06704-0727	Waterbury	СТ	Plating Polishing	Polishing, Metals Or Formed Products
American Electro Products Inc	Waterbury	СТ	06704-0129	Waterbury	СТ	Plating Polishing	Electroplating Of Metals Or Formed Products
Nylo Metal Finishing LLC	Waterbury	СТ	06704-0960	Waterbury	СТ	Plating Polishing	Electroplating Of Metals Or Formed Products
Mirror Polishing & Pltg Co Inc	Waterbury	СТ	06708-1430	Waterbury	СТ	Plating Polishing	Chromium Plating Of Metals Or Formed Products
Halco Inc	Waterbury	СТ	06723-2545	Waterbury	СТ	Plating Polishing	Electroplating Of Metals Or Formed Products
Clear & Colored Coatings LLC	Wolcott	СТ	06716-2622	Wolcott	СТ	Plating Polishing	Electroplating Of Metals Or Formed Products
Unimetal Surface Finishing LLC	Naugatuck	СТ	06770-1187	Naugatuck	СТ	Plating Polishing	Electroplating Of Metals Or Formed Products
Anomatic Corporation	Naugatuck	СТ	06770-2254	Naugatuck	СТ	Plating Polishing	Anodizing (plating) Of Metals Or Formed Products
A&R Plating Services LLC	Oakville	СТ	06779-1578	Oakville	СТ	Plating Polishing	Plating Of Metals Or Formed Products
Quality Rolling Deburring Inc	Thomaston	СТ	06787-0128	Thomaston	CT	Plating Polishing	Electroplating Of Metals Or Formed Products
Summit Corporation Of America	Thomaston	СТ	06787-2098	Thomaston	СТ	Plating Polishing	Electroplating Of Metals Or Formed Products
Whyco Finishing Tech LLC	Thomaston	СТ	06787-2099	Thomaston	СТ	Plating Polishing	Plating Of Metals Or Formed Products
Uprising LLC	Torrington	СТ	06790-3489	Torrington	СТ	Plating Polishing	Cleaning, Polishing, And Finishing
Gar Electro Forming	Danbury	СТ	06810-4131	Danbury	СТ	Plating Polishing	Electroplating Of Metals Or Formed Products
Danbury Metal Finishing Inc	Danbury	СТ	06813-1175	Danbury	СТ	Plating Polishing	Electroplating Of Metals Or Formed Products
Eds Perfect Polishing	Fairfield	СТ	06824-6485	Fairfield	СТ	Plating Polishing	Polishing, Metals Or Formed Products
Silversmith Inc	Greenwich	СТ	06830-6215	Greenwich	СТ	Plating Polishing	Polishing, Metals Or Formed Products
Superior Plating Company	Southport	СТ	06890-1241	Southport	СТ	Plating Polishing	Electroplating Of Metals Or Formed Products
Smart Polishing	Stamford	СТ	06902-6465	Stamford	СТ	Plating Polishing	Polishing, Metals Or Formed Products

AEROSPACE



The Finishing Career Path

Finishing and New Aircraft Build -OEM

- 1) The goal of aircraft and space craft design is always look to reduce weight
- 2) This extends aircraft range, pay load, cuts costs, increases speed
- 3) Weight reduction is achieved by using new, lighter materials
- 4) An electro-chemical layer can be added to the new base materials
- 5) This coating allows lighter materials to perform like the heavier metals
- 6) Material technology and its application is key to the future of aircraft, EV's, batteries, drones, weapons, space systems, etc.

Finishing in Overhaul Business - MRO

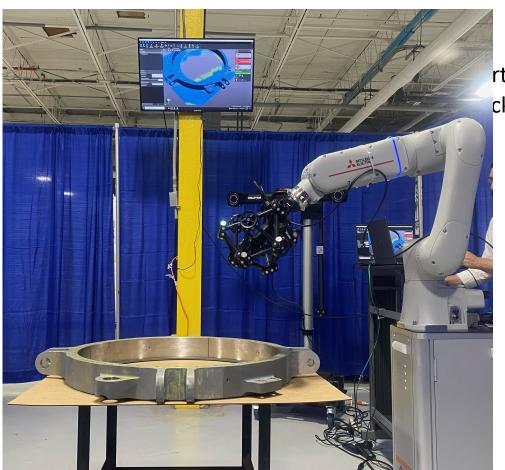
- 1) After years of flying, the coatings can be chemically removed
- 2) It can be done without attacking the base metal bring back original form
- 3) The part is then inspected and, in many instances, repaired and recoated
- 4) Part life is extended
- 5) Reduces earth mining for more material
- 6) Helps the environmental
- 7) Drives down life cycle operating costs

Model Based Inspection

Factory 4.0 Digital Career Path

OVERVIEW: The goal of competitive MRO is to **reduce down time and extend part life.**

The MFT and CCAT Technology partnership supports both



Once the aero-coating is removed, the part is back to its original form. rt can now be digitally inspected, meaning millions of data points are ckly and organized in a searchable machine learning part

The Process:

- 1) Condition the CAD Model to identify critical features to inspect
- 2) Digitally scan part gather millions of data points in minutes
- 3) Overlay the scan on CAD Model yield feature deviation map
- 4) Valuable performance feedback gathered and shared in minutes
- 5) Performance Trends key parts of digital lifetime thread
 - Drives Design Mod's to extend part life
 - Base life decision based on actual flying conditions
 - Compress repair decisions time
- 6) Reduces both lifetime operating \$\$ costs and environmental impact

TRAINING GROWTH MATRIX

	Prod Technician 1			Prod Technician 2			Proc	d Technici	an 3	Administrative		
				Qualified	Qualified	Qualified		Inspect		Schedul	Custom	
Skills Matrix	Clean	Mask	Stage	Cell 2	Cell 3	Cell 4	DSQR	FAA	CP Cert	е	er	Routers
Employee 1	3	3	3	3	3	3	3	3	3	3	1	3
Employee 2	3	3	3	3	3	3	3	3	3	3	1	3
Employee 3	2	2	2	3	3	3	3	3	3	0	0	0
Employee 4	1	1	1	0	0	0	0	0	0	0	0	0

Example Categories

- 1) Basic Chemistry for Electro Platers
 Amperage, Bars, Concentration
- 2) Preparing Metals for Plating Acids and Activation
- 3) Barrel and Rack Plating Technology Understanding Titration
- 4) Optimizing Rinsing
- 5) Need for filtration, agitation and purification
- 6) The Use of Hull Cells to trouble shoot Part QC

- 7) Commonly Plated Alloys
- 8) Difference between Anodizing & Plating
- 9)Common Finishes and their effect

Zinc
E/N
Cadmium
Chrome
Silver
Passivate
10) Glossary



The EFFECTIVE Training Status



- There is no school-based curriculum or the lab space essential to the training. We will provide both.
- Which will provide students with:
- Subject knowledge, industry exposure, mkt access and credentials.
- LEADING TO HIGH PAYING ADVANCE MANUFACTURING JOBS, WITH CONNECTICUT STUDENTS AT THE FOREFRONT.
- Further it positions the state to be a leader in this space, nationally. (We have been approached by other states and college systems about moving this effort to their state).
- Missing piece is the laboratory space for the critical hands-on demonstration and training, which MFT is willing to provide. The space to teach the fundamentals of the industry. And pioneer new technologies and applications.
- It will foster students becoming THOUGHT LEADERS and effective finishers and environmental stewards

Facilities & Equipment



Digital & Technology Growth Footprint





NADCAP LAB – Consistent Chemical Integrity

Virtual Meeting Room



Metal Finishing Technologies, LLC - Proprietary



These are just a few of the industries in which finishing is a critical and vulnerable part of the future supply chain.

This effort will help position the Connecticut workforce nationwide within the industry.



APPENDIX

REGIONAL SECTOR

MacDermid Support Letter



11/3/22

Skip Griffin VP Operations Metal Finishing Technologies 60 Wooster Ct. Bristol, CT 06010 MacDermid, Inc 245 Freight Street, Waterbury, CT 06702 USA

Douglas Hughes WRC Product Manager North America O +203 575-5700

M +203 5/5-5/00

Douglas.Hughes@macdermidenthone.com macdermidenthone.com/industrial

Dear Skip:

Thanks for reaching out regarding MFT's metal finishing educational initiative. Like many others, the metal finishing industry is experiencing a severe shortage of new, young talent and MacDermid Enthone believes that this initiative is a significant step in the right direction to secure the future of our industry and has our full support. We believe this program has the potential to produce a steady stream of qualified candidates that we would welcome the opportunity to hire. Additionally, this type of program could also result in savings to our company through reduced on-board training costs and increased productivity. In our CT-based facilities alone, I estimate this could result in 2-4 new hires per year at a minimum.

Please let me know what MacDemid Enthone can do as an organization to help support MFT and your program partners to take this to the next level.

Best regards,

Douglas Hughes

Douglas Hughes Product Manager, Wear Resistant Coatings, North America MacDermid Enthone Industrial Solutions